Session T8 - Use of Risk-Insights in Current Licensing Activities:

Steam Generator Regulatory Framework - Background

- ! Existing requirements are prescriptive, obsolete, and not focused on ensuring tube integrity
- ! NRC staff and industry have pursued separate initiatives to address these shortcomings
 - " GL 98-XX, DG-1074
 - " NEI 97-06
- ! NRC staff has interacted extensively with industry to resolve technical/regulatory issued pertaining to NEI 97-06
- ! On Feb. 4, 2000, NEI submitted a Generic License Change Package
 - " Commitment to NEI 97-06, Revision 1b
 - " new technical specification
 - " new technical requirements manual section

Objectives

- ! performance based
- ! risk informed
- ! adaptability to new technology, degradation machanisms
- ! added flexibility for licensee's

Items for Discussion

- ! What are the implications of SG tube failure at Indian Point 2? Would implementation of the NEI generic change package have prevented this occurrence?
- ! Is there need for NRC to review and formally endorse industry guidelines for performing condition monitoring assessments, including in-situ pressure testing?
- ! Is there a need to issue a finalized version of DG-1074
- ! Is there a need for NRC to develop and formalize guidelines on risk-informed steam generator amendments?

- ! performance criteria
 - " structural
 - " accident leakage
 - " operational leakage
- ! degradation mechanism assess
- ! tube inspections
- ! conditions monitoring
- ! operational assessment
- ! repair criteria
- ! repair methods
- ! leakage monitoring
- ! secondary side integrity
- ! water chemistry
- ! foreign material exclusion
- ! NRC reporting requirements

Technical Specifications

- ! Shall implement program to ensure performance criteria are met
- ! Perform periodic condition monitoring
- ! Performance criteria, repair criteria and repair methods (other than plugging) are defined in [TRM]. These criteria and methods may be revised to include criteria reviewed and approved by NRC
- ! Reporting requirements